

CLAIMS

1. A strut spring seat support for a vehicle suspension assembly comprising:

a spring seat bracket having a shelf; and  
a lower spring seat attached to the shelf.

2. The strut spring seat support of claim 1 wherein the spring seat bracket further comprises a mounting bracket portion and a stabilizer bar bracket portion.

3. The strut spring seat support of claim 1 wherein the spring seat bracket further comprises a stabilizer bar bracket portion.

4. The strut spring seat support of claim 1 wherein the spring seat bracket is formed from a single piece of metal.

5. The strut spring seat support of claim 1 wherein the shelf of spring seat bracket is attached to the lower spring seat by welding.

6. The strut spring seat support of claim 5 wherein the welding is projection welding.

7. The strut spring seat support of claim 5 wherein the welding is spot welding.

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8. The strut spring seat support of claim 1 wherein the lower spring seat includes a projection.

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9. The strut spring seat support of claim 1 wherein the shelf includes a projection.

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10. The strut spring seat support of claim 1 wherein the lower spring seat further comprises a hub forming a reservoir tube opening, the hub disposed away from the spring seat bracket.

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11. A strut spring seat support for attachment to a reservoir tube of a vehicle suspension assembly comprising:

a spring seat bracket attached to the reservoir tube, the spring seat bracket including a shelf; and

a lower spring seat disposed around the reservoir tube and attached to the shelf of the spring seat bracket.

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12. The strut spring seat support of claim 11 wherein the spring seat bracket further comprises a mounting bracket portion and a stabilizer bar bracket portion, the mounting bracket portion including a mounting bracket edge, the stabilizer bar bracket portion including a stabilizer bar bracket edge, the spring seat bracket attached to the reservoir tube by welding along the mounting bracket edge and the stabilizer bar bracket edge.

13. The strut spring seat support of claim 12 wherein the welding along the mounting bracket edge and the stabilizer bar bracket edge is substantially linear.

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14. The strut spring seat support of claim 11 wherein the spring seat bracket further comprises a stabilizer bar bracket portion, the stabilizer bar bracket portion including a stabilizer bar bracket edge, the spring seat bracket attached to the reservoir tube by welding along the stabilizer bar bracket edge.

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15. The strut spring seat support of claim 14 wherein the welding along the stabilizer bar bracket edge is substantially linear.

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16. A method for assembling a strut spring seat support for attachment to a reservoir tube of a vehicle suspension assembly comprising:  
providing a spring seat bracket including a shelf;  
providing a lower spring seat including a hub forming a reservoir tube opening;

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welding the spring seat bracket to the reservoir tube;  
positioning the lower spring seat on the reservoir tube through the reservoir tube opening, the lower spring seat adjacent to the shelf; and  
welding the lower spring seat to the shelf of the spring seat bracket.

17. The method of claim 16 wherein the step of welding the lower spring seat to the shelf of the spring seat bracket further comprises projection welding the lower spring seat to the shelf of the spring seat bracket.

18. The method of claim 17 wherein the step of providing a lower spring seat further comprises providing a lower spring seat having a circular portion having projections.

19. The method of claim 17 further comprising providing a spring seat bracket having a shelf, the shelf including projections.

20. The method of claim 16 wherein the lower spring seat is spot welded to the shelf of the spring seat bracket.

21. The method of claim 16 further comprising providing a spring seat bracket including a stabilizer bar bracket portion, the stabilizer bar bracket portion including a stabilizer bar bracket edge, and linearly welding the stabilizer bar bracket edge of the spring seat bracket to the reservoir tube.

22. The method of claim 21 further comprising providing a spring seat bracket including a mounting bracket portion, the mounting bracket portion including a mounting bracket edge, and linearly welding the mounting bracket edge of the mounting bracket portion to the reservoir tube.